

CLAIMS

1. Filter element for fluids, in particular for hydraulic fluids, comprising a filter material, and a grid-like supporting structure supporting the filter material at least on its outflow side in relation to the flow direction of the filter element and having elements made of a plastics material and electrically conductive elements, wherein the supporting structure forms a supporting fabric comprising both metal threads and plastic threads, and the filter material and the supporting fabric lie surface-to-surface against one another and are folded in the shape of a star, with the metal threads extending parallel to the pleats of the supporting fabric.
2. Filter element in accordance with claim 1, wherein the warp threads of the supporting fabric are made of a plastics material.
3. Filter element in accordance with claim 1, wherein the weft threads of the supporting fabric are made of metal.
4. Filter element in accordance with claim 1, wherein the warp and weft threads of the supporting fabric have different diameters.
5. Filter element in accordance with claim 4, wherein the diameter of the warp threads is larger than the diameter of the weft threads.
6. Filter element in accordance with claim 4, wherein the warp threads have a diameter of from approximately 0.2 mm to approximately 0.3 mm.

7. Filter element in accordance with claim 4, wherein the weft threads have a diameter of from approximately 0.1 mm to approximately 0.2 mm.
8. Filter element in accordance with claim 1, wherein the supporting fabric has a mesh width of from approximately 0.6 mm to approximately 1.0 mm.
9. Filter element in accordance with claim 1, wherein the electrically conductive material is a stainless steel.
10. Filter element in accordance with claim 1, wherein the plastics material is a polyester material.
11. Filter element in accordance with claim 1, wherein the filter material comprises a fine filter layer, a protective layer covering the fine filter layer at least on its outflow side and/or a prefilter layer covering the fine filter layer on its inflow side.
12. Filter element in accordance with claim 1, wherein the filter material is covered on its inflow side by a screen-like protective fabric.